

**What is claimed is:**

1. A driving apparatus for a plasma display panel in which one frame period is time-divided into a plurality of sub-fields each given by a certain weighting value, said driving apparatus comprising:
  - an ON data calculator for each sub-field for calculating an ON data for each sub-field to detect a load of said sub-field; and
  - an adjuster for adjusting an arrangement of said sub-field in accordance with said load of the sub-field.
2. The driving apparatus as claimed in claim 1, wherein said weighting value of the sub-field is kept at a predetermined weighing value even after the arrangement of the sub-field was adjusted.
3. The driving apparatus as claimed in claim 1, wherein said adjuster arranges the sub-field in accordance with a sequence of a sub-field having a higher load.
4. The driving apparatus as claimed in claim 1, wherein said adjuster arranges the sub-field in accordance with a sequence of a sub-field having a lower load.
5. A driving apparatus for a plasma display panel in which one frame period is time-divided into a plurality of sub-fields each given by a certain weighting value, said driving apparatus comprising:
  - a gray level detector for detecting a gray level distribution of a data; and
  - an adjuster for adjusting at least one of the number of sustaining pulses and a sub-field arrangement in

accordance with a gray level distribution of said data.

6. The driving apparatus as claimed in claim 5, wherein  
said adjuster adjusts both the number of sustaining pulses  
5 and a sub-field arrangement in accordance with the gray  
level distribution of said data.

7. The driving apparatus as claimed in claim 5, wherein  
said adjuster reduces the number of sustaining pulses when  
10 gray levels of said data concentrate on a low gray level.

8. The driving apparatus as claimed in claim 5, wherein  
said adjuster increases the number of sustaining pulses  
when gray levels of said data concentrate on a high gray  
15 level.

9. A driving apparatus for a plasma display panel in  
which one frame period is time-divided into a plurality of  
sub-fields each given by a certain weighting value, said  
20 driving apparatus comprising:

a random number generator for optionally generating  
random numbers; and

an adjuster for adjusting at least one of the number  
of sustaining pulses, a sub-field arrangement and a sub-  
25 field alignment in accordance with said random numbers.

10. A method of driving a plasma display panel in which  
one frame period is time-divided into a plurality of sub-  
fields each given by a certain weighting value, said  
30 method comprising the steps of:

calculating an ON data for each sub-field to detect a  
load of said sub-field; and

adjusting an arrangement of said sub-field in

accordance with said load of the sub-field.

11. The method as claimed in claim 10, wherein said weighting value of the sub-field is kept at a  
5 predetermined weighing value even after the arrangement of the sub-field was adjusted.

12. The method as claimed in claim 10, wherein said step  
of adjusting the arrangement of said sub-field arranges  
10 the sub-field in accordance with a sequence of a sub-field having a higher load.

13. The method as claimed in claim 10, wherein said step  
of adjusting the arrangement of said sub-field arranges  
15 the sub-field in accordance with a sequence of a sub-field having a lower load.

14. A method of driving a plasma display panel in which  
one frame period is time-divided into a plurality of sub-  
20 fields each given by a certain weighting value, said  
method comprising the steps of:

detecting a gray level distribution of a data; and  
adjusting at least one of the number of sustaining  
pulses and a sub-field arrangement in accordance with a  
25 gray level distribution of said data.

15. The method as claimed in claim 14, wherein said step  
of adjusting said at least one of the number of sustaining  
pulses and said sub-field arrangement adjusts both the  
30 number of sustaining pulses and a sub-field arrangement in  
accordance with the gray level distribution of said data.

16. The driving apparatus as claimed in claim 14, wherein

said step of adjusting said at least one of the number of sustaining pulses and said sub-field arrangement reduces the number of sustaining pulses when gray levels of said data concentrate on a low gray level.

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17. The driving apparatus as claimed in claim 14, wherein said step of adjusting said at least one of the number of sustaining pulses and said sub-field arrangement increases the number of sustaining pulses when gray levels of said data concentrate on a high gray level.

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18. A method of driving a plasma display panel in which one frame period is time-divided into a plurality of sub-fields each given by a certain weighting value, said method comprising the steps of:

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optionally generating random numbers; and  
adjusting at least one of the number of sustaining pulses, a sub-field arrangement and a sub-field alignment in accordance with said random numbers.

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